

Practice

Student Edition
Pages 611–617**Graphing Quadratic Functions**

Write the equation of the axis of symmetry and find the coordinates of the vertex of the graph of each quadratic function.

1. $y = x^2 - 2x - 8$

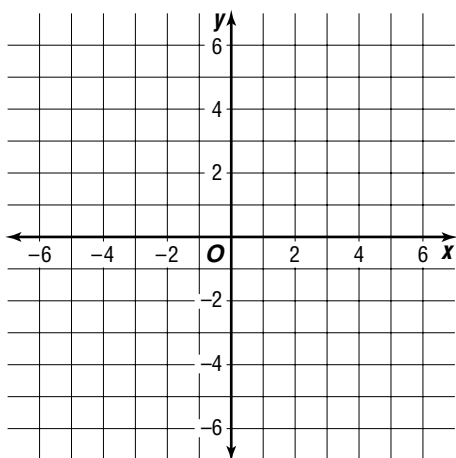
2. $y = -x^2 + x + 12$

3. $y = 8x^2 + 12x$

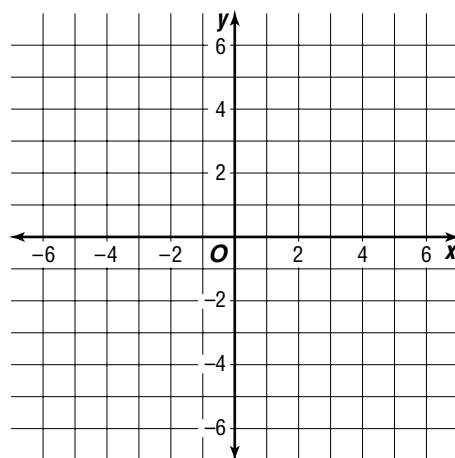
4. $y = -2x^2 + x + 2$

Write the equation of the axis of symmetry and find the coordinates of the vertex of the graph of each quadratic function. State if the vertex is a maximum or minimum. Then graph the equation.

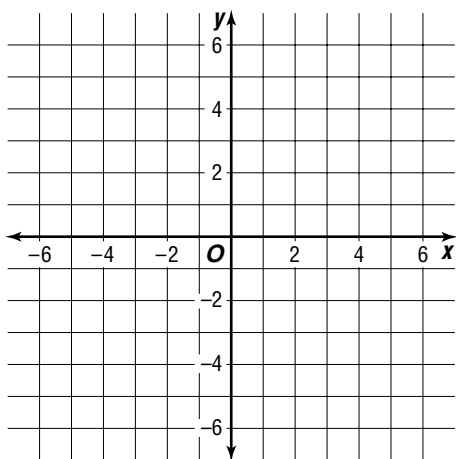
5. $y = x^2 - 3x + 2$



6. $y = -x^2 - 2x + 3$



7. $y = x^2 - 2$



8. $y = -\frac{1}{4}x^2$

